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## EUROPEAN PATENT APPLICATION

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54 **Fluorescent labels.**

57 There are described stable fluorescent labels comprising a complex of  $\text{Eu}^{+3}$  and a chelating agent comprising a nucleus which is a triplet sensitizer having a triplet energy greater than that of  $\text{Eu}^{+3}$  and at least two heteroatom-containing groups which form coordinate complexes with  $\text{Eu}^{+3}$  and a third heteroatom-containing group or heteroatom in or appended to the triplet sensitizer which chelating agents are polypyridine or phenanthroline compounds. Labeled physiologically active materials useful in specific binding assays such as labeled antigens, haptens, antibodies, hormones and the like comprising the stable fluorescent labels having physiologically active materials adsorbed or bonded thereto are also described.

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## EUROPEAN SEARCH REPORT

Application Number

EP 88 30 3543

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	EP-A-0171978 (H.S.C. RESEARCH DEVELOPMENT CORPORATION) * page 23, line 25 - page 24, line 24; claims 1-10 * * examples 6-22 *	1, 2, 4, 7-9	C07D213/76 C07D213/36 C07D213/79 C07D213/81 C07D401/14
A	EP-A-0068875 (EASTMAN KODAK CO.) * claims 1,2,4,5,10-13 *	1-10	C07D405/14 C07D471/04
D	& US-A-4637988		G01N33/533 G01N33/58
A	EP-A-0195413 (TRAVENOL-GENETECH DIAGNOSTICS) * claims 1-20 *	1, 9	/(C07D471/04, 221:00, 221:00)
A	EP-A-0203047 (J. KANKARE ET AL.) * claims 1-9 *	1, 9	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C07D213/00 C07D401/00 C07D405/00 C07D471/00 G01N33/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 18 APRIL 1991	Examiner VAN AMSTERDAM L.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons A : member of the same patent family, corresponding document	